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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/348,891	07/06/1999	ANTONIUS A.C.M. KALKER	PHN-17.025	5906
24737	7590	08/25/2005	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			TRAN, THAI Q	
			ART UNIT	PAPER NUMBER
			2616	
DATE MAILED: 08/25/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/348,891

Applicant(s)

KALKER ET AL.

Examiner

Thai Tran

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 June 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 and 6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 July 1999 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed June 7, 2005 have been fully considered but they are not persuasive.

In re pages 6-9, applicants argue that the subject invention, as claimed, is neither anticipated nor rendered obvious by the prior art, and as such, is patentable thereover because Cox et al discloses "accumulating" and "inverse transforming" for identifying registration shifts but not for watermark detection.

In response, the examiner respectfully disagrees. As discussed in the previous Examiner's Answer, Cox et al discloses from col. 17, line 51 to col. 18, line 12 that

"With reference now to FIGS. 10 and 11, there are shown the basis detection algorithms modified to compensate or translational registration. In the case of MPEG video input (FIG. 10), 8x8 DCT blocks obtained from an MPEG video stream are first classified into M groups according to their indices m of the functions h-m (i,j), summed within the groups for generating M summed blocks, and the resultant summed blocks are accumulated in 8x8 accumulators 102. The M summed blocks in accumulators 102 must be converted into the spatial domain by perform an inverse DTC operation inverse DCT converter 104, and accumulated in accumulators 106. Finding the offset value of the 8x8 grid and compensating for the offset is executed for the output from 8x8 accumulators 106 in registration 108 as described above. The registration data outputted from the registration process 108 is accumulated in accumulators 110 and converted into the DCT domain in DCT converter 112 for watermark extraction by use of accumulators 114, watermark extractor 116, the DCT coefficients outputted from accumulator 114 are classified into N sets according to the functions h-m (i,j) and summed for extracting a watermark."

From the above passage, it is noted that the process of finding the offset value of the 8x8 grid and compensating for the offset using 8x8 accumulators 106 and registration process 108 is part of the process of detecting watermark.

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Since finding the offset value of the 8x8 grid and compensating for the offset is part of the process of detecting watermark and is in spatial domain, the claimed "detecting the watermark in said accumulated plurality of pictures" is anticipated by steps 106 to 118 of Fig. 10 of Cox et al.

Additionally, even if, arguendo, that finding the offset value of the 8x8 grid and compensating for the offset of Cox et al is not part of watermark detecting process, the claimed "inverse transforming said accumulated coefficients into an accumulated plurality of pictures" is anticipated by the DCT converter 112 of Fig. 10 of Cox et al because the DCT converter 112 of Cox et al is inverse transforming of the Inverse DCT Converter 104 and the claimed "detecting the watermark in said accumulated plurality of pictures" is anticipated by Watermark Extractor 116 of Fig. 10 of Cox et al because the alleged "watermark detection is performed in the spatial domain" is not recited in claims.

Claim Objections

2. Claims 1-3 are objected to because of the following informalities:

Regarding claim 1, line 5, "Accumulating" should be changed to --accumulating--;
and

Regarding claim 2, line 1, "claim I" should be changed to --claim 1--.

Claim 3 is dependent on the objected claim 2 and; therefore, inherits the deficiency thereof. Appropriate correction is required.

Claim Rejections - 35 USC § 102

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3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-4 and 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Cox et al ('792 B1) as set forth in the last Office Action.

Regarding claim 1, Cox et al discloses a method of detecting a watermark in a compressed video signal (Fig. 10) comprising spectral coefficients obtained by transforming picture of said video signal, the method consisting essentially of the steps:

accumulating spatially corresponding coefficients of a plurality of picture (step 102 of Fig. 10, col. 17, lines 51-58);

inverse transforming said accumulated coefficients into an accumulated plurality of pictures (step 104 of Fig. 10, col. 17, line 59 to col. 18, line 1); and

detecting the watermark in said accumulated plurality of pictures (steps 106-118 of Fig. 10, col. 18, lines 1-12).

Regarding claim 2, Cox et al also discloses the claimed wherein said encoded video signal includes predictive encoded pictures each comprising coefficients representing a residual picture after subtracting a prediction picture, and wherein the step of accumulating coefficients is applied to the coefficients representing said residual

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pictures irrespective of coefficients representing the prediction picture (col. 9, lines 27-49 and col. 17, lines 51-58).

Regarding claim 3, Cox et al further discloses the claimed wherein said predictive encoded pictures further include motion vectors, and wherein the step of accumulating coefficients is carried out irrespective of said motion vectors (col. 9, lines 27-49 and col. 17, lines 51-58).

Apparatus claim 4 is rejected for the same reasons as discussed in method claim 1 above.

Claim 6 is rejected for the same reasons as discussed in claim 1 above with additional limitation of claimed means (col. 1, lines 32-45) for disabling recording and/or playback of the video signal in dependence upon the presence of a watermark in said video signal.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai Tran whose telephone number is (571) 272-7382.

The examiner can normally be reached on Mon. to Friday, 8:00 AM to 5:30 PM.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTQ


THAI TRAN
PRIMARY EXAMINER